

NZS 3501

Table 1: Copper Tubes for Water and Gas

| Nominal bore | Outside diameter | Wall thickness | Safe working pressure* | Operating pressure (max.)** | Hydrostatic test pressure | Nominal weight | Temper | Length | Water content |
|--------------|------------------|----------------|------------------------|-----------------------------|---------------------------|----------------|------------|--------|---------------|
| mm | mm | mm | MPa | MPa | MPa | kg/m | | m | l/m |
| 10 | 11,35 | 0,910 | 8,02 | 8,9 | 6,41 | 0,267 | Half Hard | 5 | 0,071 |
| 15 | 14,73 | 1,020 | 6,84 | 7,6 | 5,54 | 0,393 | Half Hard | 5 | 0,126 |
| 20 | 21,08 | 1,020 | 4,68 | 5,2 | 3,87 | 0,575 | Half Hard | 5 | 0,285 |
| 25 | 27,43 | 1,020 | 3,55 | 4,0 | 2,97 | 0,757 | Half Hard | 5 | 0,506 |
| 32 | 34,19 | 1,220 | 3,40 | 3,8 | 2,85 | 1,130 | Hard Drawn | 5 | 0,792 |
| 40 | 40,54 | 1,220 | 2,85 | 3,2 | 2,41 | 1,347 | Hard Drawn | 5 | 1,140 |
| 50 | 53,24 | 1,220 | 2,16 | 2,4 | 1,83 | 1,782 | Hard Drawn | 5 | 2,027 |
| 65 | 65,94 | 1,220 | 1,73 | 1,9 | 1,48 | 2,218 | Hard Drawn | 5 | 3,167 |
| 80 | 79,45 | 1,630 | 1,93 | 2,1 | 1,64 | 3,563 | Hard Drawn | 5 | 4,559 |
| 90 | 92,56 | 1,830 | 1,86 | 2,1 | 1,58 | 4,663 | Hard Drawn | 5 | 6,207 |
| 100 | 105,66 | 2,030 | 1,80 | 2,0 | 1,54 | 5,908 | Hard Drawn | 5 | 8,107 |

*in annealed state, up to temperatures of 65°C according NZS 3501

**in annealed state (Rm 200), up to temperatures of 100°C, calculated with 3.5-fold safety according to AD2000-Merkblatt B0 / B1

Table 2: Copper Tubes for Sanitation

| Nominal bore | Outside diameter | Wall thickness | Safe working pressure* | Operating pressure (max.)** | Hydrostatic test pressure | Nominal weight | Temper | Length | Water content |
|--------------|------------------|----------------|------------------------|-----------------------------|---------------------------|----------------|------------|--------|---------------|
| mm | mm | mm | MPa | MPa | MPa | kg/m | | m | l/m |
| 25 | 27,43 | 1,020 | 3,55 | 4,0 | 2,97 | 0,757 | Half Hard | 5 | 0,506 |
| 32 | 34,19 | 1,220 | 3,40 | 3,8 | 2,85 | 1,130 | Hard Drawn | 5 | 0,792 |
| 40 | 40,54 | 1,220 | 2,85 | 3,2 | 2,41 | 1,347 | Hard Drawn | 5 | 1,140 |
| 50 | 53,24 | 1,220 | 2,16 | 2,4 | 1,83 | 1,782 | Hard Drawn | 5 | 2,027 |
| 65 | 65,94 | 1,220 | 1,73 | 1,9 | 1,48 | 2,218 | Hard Drawn | 5 | 3,167 |
| 80 | 79,04 | 1,420 | 1,68 | 1,9 | 1,44 | 3,096 | Hard Drawn | 5 | 4,560 |
| 90 | 92,15 | 1,630 | 1,66 | 1,8 | 1,42 | 4,144 | Hard Drawn | 5 | 6,206 |
| 100 | 104,85 | 1,630 | 1,45 | 1,6 | 1,24 | 4,725 | Hard Drawn | 5 | 8,106 |
| 125 | 130,25 | 1,630 | 1,17 | 1,3 | 1,00 | 5,888 | Hard Drawn | 5 | 12,666 |
| 150 | 156,06 | 1,830 | 1,09 | 1,2 | 0,94 | 7,927 | Hard Drawn | 5 | 18,241 |
| 200 | 194,5 | 3,000 | 1,44 | 1,6 | 1,23 | 16,135 | Hard Drawn | 5 | 27,907 |
| 250 | 268 | 3,000 | 1,04 | 1,1 | 0,90 | 22,328 | Hard Drawn | 5 | 53,913 |

*in annealed state, up to temperatures of 65°C according NZS 3501

**in annealed state (Rm 200), up to temperatures of 100°C, calculated with 3.5-fold safety according to AD2000-Merkblatt B0 / B1

Table 3: Light Gauge Copper Tubes for Water and Gas

| Nominal bore | Outside diameter | Wall thickness | Safe working pressure* | Operating pressure (max.)** | Hydrostatic test pressure | Nominal weight | Temper | Length | Water content |
|--------------|------------------|----------------|------------------------|-----------------------------|---------------------------|----------------|-----------|--------|---------------|
| mm | mm | mm | MPa | MPa | MPa | kg/m | | m | l/m |
| 10 | 11,35 | 0,6 | 5,13 | 5,7 | 4,23 | 0,181 | Half Hard | 5 | 0,081 |
| 15 | 14,73 | 0,7 | 4,59 | 5,1 | 3,80 | 0,276 | Half Hard | 5 | 0,140 |
| 20 | 21,08 | 0,9 | 4,10 | 4,6 | 3,42 | 0,510 | Half Hard | 5 | 0,292 |

*in annealed state, up to temperatures of 65°C according NZS 3501

**in annealed state (Rm 200), up to temperatures of 100°C, calculated with 3.5-fold safety according to AD2000-Merkblatt B0 / B1